

New Species of *Primula*.

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THE following new species are described :—

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Primula aequipila, Craib (*Petiolaris*).

Rhizoma crassum vel subcrassum ; squamae basales tenues, brunneae, diu persistentes, ad 15 mm. longae, superne saepe dentatae, ciliolatae. Folia omnia basalia, suberecta, oblonga, elliptica vel subquadrato-elliptica, apice rotundata truncatave, saepe late retusa, basi rotundata vel subacuminata, usque ad 10 cm. longa et 7.3 cm. lata, rigide chartacea, supra viridia, pilis minutis albis capitatis farini-potentibus sparse instructa, et ad costam inferne pilis elongatis transverse septatis densius tecta, subtus pallidiora, costa pilis iisdem elongatis tecta, aliter pilis brevioribus sed nequaquam parvis transverse septatis subaequaliter vix dense tecta, costa supra pallescente lata subtus prominente, nervis lateralibus utrinque 8-11, supra saepe pallescentibus parum impressis subtus prominentibus, nervulis in foliis maturis reticulationem laxam subtus prominulam supra plerumque impressam formantibus, margine subcrenulata, hydathodo-denticulata, dentibus saepissime recurvis ; petioli usque ad 5 cm. longi, pilis elongatis transverse septatis densius pilosi, praeterea pilis brevibus farini-potentibus sparse instructi. Pedunculi communes solitarii, 8.5-17 cm.

* For key to the new species described here of the *Davidii* alliance and to their allies see p. 181.

[Notes, R.B.G., Edin., No. LIV, October 1919.]

alti, indumento ei petiolorum sed multo sparsiore simili tecti; bracteae tenues, brunneae, lineari-lanceolatae vel e basi lata lineari-lanceolatae, circa 8 mm. longae, ciliolatae; umbellae ad 7-florae, pedicellis 8–15 mm. longis indumento ei pedunculi simili tectis. Calyx viridis, dorso indumento ei pedunculi simili tectus, 9–10 mm. longus, ad medium lobatus, lobis variabilibus 3–4 mm. latis ciliolatis 3–5-nerviis nervis rectis subrectisve apice haud anastomosantibus. Corollae tubus in flore longistylis circa 11 mm. longus, apice annulatus, in flore brevistylis circa 13 mm. longus, exannulatus; limbi lobi circa 12 mm. longi et 10 mm. lati, apice late retusi et in sinus fundo apiculati. Antherae oblongae, circa 2.25 mm. longae, filamentis circa 0.75 mm. longis basem versus expansis et ima basi connatis itaque anulum minorem fere efficientibus in flore longistylis circa 5 mm. et in flore brevistylis circa 11 mm. supra corollae tubi basem insertis suffultae, in flore longistylis in calyce inclusae et in brevistylis e calyce omnino exsertae. Ovarium 1.5–2 mm. altum, stigmate in flore longistylis exserto, in brevistylis in calyce bene incluso, stylis cum stigmate capitato in flore brevistylis circa 5 mm. longo.

China. Hupeh, Changyang, wet places, 5600 ft. Flrs. purple. Wilson, 52 (Herb. Edin. et Kew). Flr. iv, oo.

Primula drymophila, Craib (Petiolaris) ab affini *P. sonchifolia*, Franchet, antheris in flore longistylis partim haud omnino e calyce exsertis distinguenda.

Herba 10–20 cm. alta (fide Wilson), rhizomate squamisque basalibus in specimine unico deficientibus. Folia sub anthesin haud matura, oblongo-elliptica, apice rotundata, basi in petiolum latum angustata, circa 5 cm. longa et 2–8 cm. lata, membranacea vel rigide membranacea, pagina utraque viridia, et pilis brevibus capitatis farini-potentibus sed inferiore paulo densius conspersa, nervis lateralibus utrinque circa 8 subtus prominulis bene intra marginem ramosis, margine subaequaliter lobulata, lobulis circa 4 mm. longis et 5 mm. latis eroso-denticulatis dentibus hydathodo terminatis, petiolo ad 2.5 cm. longo membranaceo-alato inferne vaginante suffulta. Pedunculus communis florigerus 6 cm. altus, pilis capitatis farini-potentibus puberulus, 5-florus; bracteae oblongae vel ovato-lanceolatae, apice obtusae vel obtuse subacuminatae, 4–4.5 mm. longae, dorso pilis paucis brevibus capitatis instructae vel fere glabrae, pilis iisdem ciliolatae; pedicelli 11–13 mm. longi, indumento ei pedunculi simili tecti. Calyx viridis, dorso ut pedicelli puberulus, campanulatus, circa 5 mm. longus, ad medium vel paululo ultra medium 5-lobatus, lobis imbricatis plus minusve obovato-oblongis apice variabilibus acuminatis vel tridentatis ciliolatis.

Corolla violacea (fide *Wilson*), extra supra calycis apicem ad loborum medium sed superne sparsius puberula; tubus floris longistyli 9 mm. longus, infra stamina angustatus, superne gradatim paulo expansus, apice distincte annulatus, annulo 10-lobato, lobis antipetalis magnis alternipetalis parvis, intra supra stamina pauci-pilosus; discus 1.75 mm. latus; limbus totus 13 mm. latus, supra praesertim inférne sparse pilosus; lobi elliptico-ovovati, apice undulati vel undulato-denticulati, circa 10 mm. longi et lati. Antherae oblongae, 2 mm. longae, floris longistyli parte dimidia inferiore in calyce inclusa, filamentis circa 0.5 mm. longis circa 3.5 mm. supra corollae tubi basem insertis suffultae. Ovarium 2 mm. altum, stylo longo cum stigmate capitato 7.5 mm. longo.

Western Szechwan, Tachien-lu, 9000–11,000 ft. Herb 4–8 inches; flowers violet; in woodlands. *Wilson*, 1081 quoad exemplum floriferum (Herb. Edin.).

***Primula pilosa*, Craib (Petiolaris).**

Rhizoma crassum subtenuve, lignosum; squamae basales persistentes vel deciduae, brunneae, tenues, ad 12 mm. longae, apicem versus saepe denticulatae, ciliolatae. Folia omnia basalina, suberecta, oblonga, oblongo-obovata vel fere elliptica, apice rotundata, haud rarius late retusa, basi cuneata, 5.5–8 cm. longa, 2.6–4 cm. lata, rigide chartacea, supra viridia, subtus pallidiora, pagina utraque pilis brevibus capitatis farini-potentibus conspersa, nervis lateralibus utrinque saepissime 12–15 supra saepe parum impressis subtus prominentibus, costa supra pallescente subtus prominente, nervulis reticulationem subtus saepe prominentem formantibus, margine crenata vel crenatolobulata, hydathodo-denticulata dentibus saepissime recurvis, ciliolata, petiolo lamina decurrente alato vix distincto vel ad 15 mm. longo indumento ei laminae simili instructo suffulta. Pedunculi communes solitarii, in exemplo unico florifero 4.5 cm. longi, in exemplis fructiferis usque ad 21 cm. longi, pilis brevibus capitatis farini-potentibus albis conspersi, 1–6-flori; bracteae brunneae, e basi lata longius acuminatae, rarius lineari-lanceolatae, 6–7 mm. longae; pedicelli floriferi 8 mm. longi, fructiferi superne incrassati, ad 21 mm. longi, indumento ei pedunculi simili tecti. Calyx viridis, dorso pilis brevibus farini-potentibus puberulus, intra tubi apicem versus inter lobos similiter puberulus, sub anthesin (sicco) 9.5 mm. longus, infrutescens paulo ultra 10 mm. longus, vix ad medium lobatus, lobis ad 5 mm. latis apice variabilibus saepissime acuminatis acutis vel subobtusis 5–7-nerviis ciliolatis. Corollae floris longistyli tubus sicco 10.5 mm. longus, lobi 13 mm. longi, 11 mm. lati, apice bilobulati. Antherae in calyce inclusae sed e calycis tubo

bene (an omnino?) exsertae. Stylus longus corollae tubo subaequaltus, brevis in fructu calycis lobis dimidio brevior, stigmatē capitato. Capsula in calycis tubo inclusa.

W. China. Wet rocks, 6000 ft. Flrs. purple. Wilson, 4048 (Herb. Kew).

Of this species I have seen but one corolla—a long-styled one—and the measurements are consequently taken in the dry condition.

Primula euosma, Craib (Petiolaris), ab affini *P. odontocalyce*, Pax, calycis lobis longe subacute attenuato-acuminatis integris distinguenda.

Herba nana, scaposa, rhizomate breve radices fibrosas numerosas emittente; squamae basales sub anthesin delapsae. Folia subdensa, saepissime elliptica vel obovata, apice rotundata, basi in petiolum attenuata lateve cuneata, ad 3 cm. longae et 2.3 cm. lata, rigide membranacea, viridia sed subtus pallidiora, pagina utraque pilis brevibus farini-potentibus sparse instructa, nervis lateralibus utrinque circa 6 erecto-patentibus supra vix conspicuis subtus conspicuis, margine argutius denticulata, denticulis hydathodo-apiculatis, subsessilia vel petiolo usque ad 1.5 cm. longo suffulta. Pedunculi communes solitarii, 3–5 cm. alti, 3–7-flori, pilis farini-potentibus puberuli vel superne fere sparse farinosi; bractae angustae, circa 6 mm. longae; pedicelli 10–15 mm. longi, indumento ei pedunculi simili tecti. Calyx viridis, campanulatus, 7 mm. longus, lobis oblongo-ovatis longius subacute acuminatis circa 4.5 mm. longis et 2.5 mm. latis breviter dense ciliolatis. Corollae floris longistyli tubus exannulatus, vix 10 mm. longus, limbo circa 1.2 cm. lato, disco 2.5–3 mm. lato; lobi circa 10 mm. longi et lati, parum irregulariter denticulati sed saepissime anguste bilobulati, lobulis denticulatis. Antherae 2 mm. longae, breviter apiculatae, in calyce inclusae, filamentis brevibus antheris obtectis circa 3.5 mm. supra corollae basem affixis suffultae. Ovarium 1.5 mm. altum, stylo longo circa 6 mm. longo, stigmatē depresso-globoso circa 0.75 mm. longo.

Yunnan. Shweli-Salwin divide, 10,000–11,000 ft. Lat. 25° 30' N. Plant of 2–4 inches. Flowers soft purplish-rose with eye greenish-yellow, fragrant. Shady situations by streams. G. Forrest, 15772. Fl. July 1917.

Primula fagosa, Balf. f. et Craib (Petiolaris).

Rhizoma crassum, lignosum, radices sat crassas numerosas emittens; squamae basales suboblongae, circa 2 cm. longae, tenues, brunneae, medium versus pallescentes, pilis minutis farini-potentibus albis conspersae, ciliolatae. Folia omnia basalia,

oblonga, oblongo-obovata vel subelliptica, apice rotundata, saepe late haud alte retusa, basi cuneata, usque ad 13.5 cm. longa et 7 cm. lata, chartacea vel coriaceo-chartacea, supra sicco iuventute fusca, matura fusca brunneave, pilis parvis inconspicuis farini-potentibus sparse instructa, praeterea ad costae partem inferiorem pilis longioribus transverse septatis hic illic ornata, subtus matura pallidiora, farina alba (an semper ?) sparse tecta et ad costam nervosque pilis longioribus transverse septatis ornata, costa supra pallescente, nervis lateralibus utrinque 12-13 supra conspicuis saepe parum impressis subtus cum costa prominentibus, nervulis rete conspicuum supra interdum immersum subtus prominens formantibus, subsessilia vel petiolo vix distincto alato ad 1 cm. longo suffulta. Pedunculi communes solitarii vel in exemplo unico bini, umbellam simplicem 3-6-floram vel in exemplo fructifero umbellam terminalem paucifloram et verticillum inferum pluriflorum gerentes, 6-12 cm. alti, pilis longiusculis transverse septatis sparsius vel subdense tecti praeterea pilis brevibus farini-potentibus instructi; bractee brunneae, e basi lata caudato-acuminatae, circa 5 mm. longae; pedicelli 8-18 mm. longi, indumento ei pedunculi simili tecti, infructescentes superne conspicue incrassati. Calyx brunneus, 9 mm. longus, extra indumento ei pedicellorum simili tectus, ad medium lobatus, lobis 3.5 mm. latis breviter acuminatis ciliolatis, nervis 3-5 rectis vel subrectis obscuris. Corollae floris brevistylis tubus circa 14 mm. longus, exannulatus, lobi circa 11 mm. longi et 9-10 mm. lati, apice late retusi et in sinus fundo apiculati. Antherae oblongae, 2.75 mm. longae, filamentis 1-1.25 mm. longis inferne parum dilatatis in flore brevistylis circa 11.5 mm. e corollae tubi base affixis suffultae, in flore longistylis in calyce inclusae. Ovarium 2.5 mm. altum; pistillum floris brevistylis calyci vix aequialtum, stigmatibus capitato. Capsula in calycis tubo inclusa, seminibus fuscis angulatis foveolatis.

W. China. E. Szechwan, Tchen-kéow-tin, Farges, 119 (Herb. Edin. et Kew).

Primula Harsukhii, Craib (Denticulata), a *P. denticulata*, Sm. foliis squamiformibus magnis, involucri bracteis minoribus, floribus distincte pedicellatis distinguenda.

Rhizoma breve, crassum, radices elongatas crassas emittens; folia squamiformia exteriora latissime ovata, circa 2.4 cm. longa et 2 cm. lata, interiora gradatim longiora et angustiora, intima oblonga, usque ad 5 cm. longa, omnia rigida, erecta, arcte adpressa, apice acuminata, margine superne denticulata, arcte revoluta, utrinque pilis brevibus capitatis farini-potentibus inconspicue puberula vel interdum sparse irregulariterque sul-

phureo-farinosa. Folia floribus coaetanea vel sub anthesin vix evoluta, oblongo-lanceolata vel oblongo-spatulata, apice obtusa rotundatave, basi in petiolum latum angustata, paulo post anthesin ad 9 cm. longa et 2.8 cm. lata, rigide chartacea, pagina utraque pilis capitatis farini-potentibus puberula vel saepe inferiore plus minusve sulphureo-farinosa, nervis lateralibus utrinque 10-14, supra subconspicuis subtus prominentibus, nervis transversis obscuris vel paucis subtus subprominulis, margine subregulariter hydathodo-denticulata, ciliolata, petiolo late membranaceo-alato vix distincto ad 3.5 cm. longo suffulta. Pedunculi communes solitarii, 8-11 cm. alti, pilis farini-potentibus puberuli et summo apice pallide luteo-farinosi; bractae involucrales saepissime late ovato-delloideae, obtusae, pedicellis distincte breviores, rarius pedicellis subaequales, puberulae, ciliolatae; pedicelli usque ad 5 mm. longi, pilis farini-potentibus dense tecti vel pallide farinosi, apice anthopodio distincto terminati. Calyx pilis farini-potentibus extra sparse puberulus, 6.5 mm. longus; lobi 4-5 mm. longi, circa 1.5 mm. lati, lineari-lanceolati, obtusi, unicostati, intra pilis longiusculis capitatis instructi, ciliolati. Corollae tubus circa 11 mm. longus, extra puberulus, exannulatus, haud rugosus; limbi lobi circa 4.5 mm. longi et 3.25 mm. lati, apice lobulati, sinu circa 1.5 mm. alto. Antherae lineari-oblongae, loculis basi apiceque liberis, filamentis brevibus in flore longistylis 5 mm. in brevistylis circa 7.5 mm. supra corollae basem insertis suffultae. Ovarium depresso-globosum, 1.75 mm. altum; stylus longus 6 mm., brevis 2.25 mm. stigmatibus capitatis inclusis longus.

Kurram Valley, Harsukh, 14894 (*type*), 14909 (Herb. Edin. et Kew); Bian Khél, Aitchison, 130 (Herb. Kew).

N.W. Frontier Provinces, S. Waziristan, Pir Ghal, 8000-11,500 ft., Harsukh, 15602 (Herb. Calc.).

***Primula leptophylla*, Craib (*Petiolaris*).**

Rhizoma crassum, lignosum, radices fibrosas valde numerosas emittens; squamae basales numerosae, membranaceae, persistentes, saepissime circa 15 mm. longae, pilis minutis capitatis inconspicuis sparsissime instructae, brunneae. Folia omnia basalia, subrecta, oblongo-elliptica, elliptica, oblongo-obovata vel obovata, apice rotundata, saepe retusa, basi saepissime cuneata vel acuminata, ad 8 cm. longa et 5.2 cm. lata, membranacea vel rigide membranacea, viridia, pagina superiore pilis minutis albis farini-potentibus sparsius instructa, rarissime costae imam basem versus pilis longioribus paucissimis instructa, inferiore pilis minutis albis farini-potentibus subdense tecta, praeterea costa nervisque lateralibus pilis elongatis transverse septatis pilosa, nervis lateralibus utrinque saepissime 9

supra conspicuis subtus prominulis, margine anguste crenata et hydathodo-denticulata, ciliata; petioli ad 5 cm. longi, lamina decurrente anguste alati, pilis elongatis transverse septatis pilosi et pilis minutis farini-potentibus sparse instructi. Pedunculi communes solitarii vel bini, infructescentes 9–14 cm. alti, indumento ei petiolorum simili sed nisi summo apice sparsiore tecti, 5–9-flori; bracteae circa 6 mm. longae et 3.5 mm. latae, apice rotundatae vel fere truncatae, erosae, summo apice caudato-acuminatae, brunneae, ciliolatae, dorso puberulae; pedicelli infructescentes usque ad 2 cm. longi, indumento ei pedunculi simili tecti. Calyx viridis, utrinque puberulus, 11 mm. longus, lobis 5 mm. longis et 4 mm. latis ciliolatis 3–5 nerviis nervis rectis vel subrectis apice haud anastomosantibus. Corolla ignota. Ovarium 2 mm. altum, stylo brevi stigmate grandi capitato incluso 4.5 mm. longo.

Plateau de Tse-tchou-pa, 2500 m., Mai, fl. bleues, E. E. Maire (Herb. Edin.).

Primula limnoica, Craib (Denticulata) ab affini *P. denticulata*, Wall., foliis tenuioribus pilosulis distinguenda.

Radices sat numerosae, crassae. Folia sub anthesin vix matura, in rosulam subrectam basi squamis exterioribus brunneis induratis interioribus elongatis stramineis brunneo-venosis ad 3 cm. longis cinctam disposita, oblanceolata vel saepius oblongo-oblanceolata, apice rotundata vel obtuso-rotundata, costa paululo excurrente apiculata, basi in petiolum angustata, ad 7.5 cm. longa et 2 cm. lata, chartaceo-membranacea vel membranacea, pagina inferiore pilis mediocribus transverse septatis albis et brevibus capitatis farini-potentibus instructa, superiore iuventute pilosula, cito plus minusve glabrescentia, nervis lateralibus utrinque numerosis pagina utraque conspicuis, margine hydathodo-denticulata, ciliolata, petiolo plus minusve distincto alato ad 3 cm. longo suffulta. Pedunculus solitarius, 15–30 cm. altus, apice luteo-farinosus; bracteae exteriores parvae, anguste deltoideae, apice longius attenuatae, pedicellos exteriores subaequantur vel iis usque dimidio longiores; pedicelli exteriores circa 2 mm. longi. Calyx viridis vel saepissime saltem lobis cito purpurascens, 7 mm. longus, lobis 4.5 mm. longis linearibus apice obtusis margine sat dense ciliolatis. Corollae tubus in flore longistylus 11 mm. longus, lobi 6 mm. longi, vix ad medium bilobati, lobulis apice rotundatis, oculo circa 1 mm. lato. Stamina in calyce bene inclusa, antheris 1.75 mm. longis, loculis basi acuminatis. Stylus stigmate subcylindrico circa 1.25 mm. longo incluso 6 mm. longus, in corollae tubo bene inclusus; ovarium circa 2 mm. altum. Capsula straminea, calyci subaequalta.

Upper Burma. Taping Valley. Lat. $24^{\circ} 30' N$. Alt. 3500 ft. Plant of 6–15 inches. Flowers lavender-blue. Boggy situations by streams. G. Forrest, 13643. Fl. et Fr. April 1917.

Hpimaw Hill. 7000–9000 ft. Abundant over all the bracken slopes, from the base of Hpimaw hill to 9000 ft. Already passing into seed on 10th April, it still, on some banks, made drifts as densely blue as scabious on a Yorkshire fell-side in August. No scent, or very little. Completely efarinose except at the umbel. R. G. Farrer, 823. Fl., 11th April 1919.

The plants forwarded by Farrer contain short-styled flowers. These were wanting at the time that the description was drawn up from the Taping plant. In the short-styled flower the style is completely included in the calyx and the stamens are completely exserted.

***Primula macropoda*, Craib (*Petiolaris*).**

Rhizoma crassum, lignosum, radices numerosas fibrosas emittens. Folia omnia basalia, elliptica vel oblongo-elliptica, apice rotundata, saepe late retusa, basi cuneata breviterve acuminata, usque ad 8.5 cm. longa et 5 cm. lata rigide chartacea, supra costa nervisque pallescentibus exceptis viridia, costa basem versus pilis paucis longis transverse septatis ornata, subtus pallidiora, ad costam nervosque laterales pilosa, nervulis pubescentia puberulae, praetereaue pagina utraque pilis brevibus inconspicuis capitatis farini-potentibus sparse instructa, nervis lateralibus utrinque 8–10 supra conspicuis subtus cum costa prominentibus, nervulis rete laxum subtus prominulum vel fere prominens formantibus, margine saepe anguste recurva, hydathodo-denticulata sed haud rarius imam basem versus pauci-lobulata, breviter ciliata; petioli ad 9 cm. longi, apice lamina decurrente anguste alati, pilis longis transverse septatis tecti praetereaue pilis brevibus inconspicuis capitatis subsparse instructi. Pedunculi communes solitarii, infructescentes circa 17 cm. alti, indumento ei petiolorum simili sed nisi summo apice conspicue sparsiore tecti, virides, circa 7-flori; bractae plus minusve lanceolatae, circa 7 mm. longae, brunneae vel exteriores medio virides et marginem versus brunneae, ciliolatae, dorso medio sparsim breviter pilosae; pedicelli 15–22 mm. longi, superne incrassati, recti, sparse breviter pilosi et pilis brevibus farini-potentibus inconspicuis instructi. Calycis infructescentis viridis tubus circa 7 mm. longus, indumento ei pedicellorum simili dorso tectus, lobi circa 5.5 mm. longi et 3.5 mm. lati, ciliolati, 5-nervii, nervis rectis vel subrectis apice haud anastomosantibus. Corolla ignota. Capsula in calycis tubo inclusa, seminibus angulatis reticulatis.

Szechwan, Pratt, 346, Henry, 8860 (Herb. Kew).

Primula polia, Craib (Petiolaris).

Rhizoma crassum, radices numerosas fibrosas emittens; squamae basales membranaceae, brunneae, pilis brevibus albis vix conspicuis farini-potentibus subsparse tectae, ad 17 mm. longae. Folia omnia basalia, saepissime elliptica vel obovato-elliptica, rarius oblongo-elliptica, apice rotundata, haud rarius retusa, basi rotundata et in petiolum subacuminatim angustata vel in petiolum cuneatim angustata, usque ad 12 cm. longa et 8.5 cm. lata, coriacea vel subcoriacea, pagina superiore ad costae partem trientem inferiorem pilis sat longis transverse septatis plus minusve persistentibus tecta et aliter pilis brevibus albis capitatis farini-potentibus sparse instructa, inferiore pallidiora, pilis brevibus farini-potentibus iis paginae superioris similibus sat dense tecta praeterea ad costam nervos nervulosque pilis longiusculis sat crassis transverse septatis saepissime minutius capitatis dense instructa, nervis lateralibus utrinque 10-12 obliquis subtus prominentibus, costa supra lata pallescente subtus valde prominente, nervulis rete perfectum subtus prominens supra cum nervis lateralibus impressum formantibus, margine demum anguste recurva, hydathodo-denticulata, ciliata, petiolo 2-4 cm. longo superne lamina decurrente angustius alato subdense piloso et pilis brevibus farini-potentibus puberulo suffulta. Pedunculi communes solitarii vel bini, 10-12 cm. alti, pilis elongatis transverse septatis pilosi et pilis brevibus farini-potentibus sparse puberuli, 2-10-flori; bractee superne saepissime longius attenuatae, basi subitius ampliatae, brunneae, rigide membranaceae, ciliolatae et dorso sparsissime pilosae, circa 6 mm. longae; pedicelli 5-15 mm. longi, indumento ei pedunculi simili sed apice densius tecti. Calyx viridis, extra indumento simili sed sparsiore tectus, 8.5-9 mm. longus, ad medium lobatus, lobis 3-3.5 mm. latis ciliolatis 5-nerviis nervis rectis subrectis apice haud anastomosantibus. Floris longistyli corollae tubus 10 mm. longus, apice conspicue annulatus, limbi disco 2.5 mm. lato, lobis 10 mm. longis 12 mm. latis apice ad 2.5 mm. bilobulatis, limbo cum tubi apice pilis paucis crassis transverse septatis instructo. Stamina floris longistyli in calyce inclusa, filamentis circa 5 mm. supra tubi basem insertis, floris brevistyli circa 8.5 mm. supra tubi basem insertis; antherae oblongae, fere 2 mm. longae; filamenta circa 0.75 mm. longa, inferne conspicue dilatata. Ovarium 2 mm. altum; stylus longus 10 mm. longus, brevis calycis tubo subaequaltus, stigmate capitato circa 0.75 mm. longo.

Sous bois-rochers de Ou-tchai, 2000 m., Avril, fl. violettes, E. E. Maire (Herb. Edin.). Forêts de bambous de Lo-han-lin, 2400 m., Mai, fl. bleues, E. E. Maire (Herb. Edin.). Collines boisées de Ou-tchai, 2000 m., fls. roses, E. E. Maire (Herb. Edin.).

Primula praticola, Craib (Petiolaris), species nova ab affini *P. taliense*, G. Forrest, floribus maioribus inter alia distinguenda.

Herba nana, squamis basalibus sub anthesin fere omnino delapsis. Folia sub anthesin erecta vel erecto-patentia, pauca vel satis numerosa et subdense aggregata, apice rotundata, spatulata et basi in petiolum cuneatim angustata ovatave et basi latissime cuneata vel fere truncata, usque ad 3 cm. longa et 1.5 cm. lata, membranacea, viridia, pagina utraque pilis flaccidis albis transverse septatis laxe tecta, nervis lateralibus utrinque 5 patentibus pagina utraque obscuris vel inferiore subconspicuis, margine crassius dentata vel duplicato-dentata, dentibus hydathodo-apiculatis, ciliata, petiolo vix distincto vel alato ad 2 cm. longo pilis iis paginae similibus tecto suffulta. Pedunculus communis solitarius, brevis vel foliis fere aequaltus, cum pedicellis pilis albis flaccidis transverse septatis tectus, 1-5-florus; bractee elongato-lanceolatae, virides, albo-pilosae, circa 5 mm. longae; pedicelli 10-15 mm. longi. Calyx viridis, campanulatus, 6.5 mm. longus, dorso subsparsae albo-pilosus, lobis ovatis obtusiusculis vel interdum obtusiuscule acuminatis 2.5 mm. longis 2 mm. latis ciliatis integris vel pauci-dentatis. Corolla extra sparse albo-pilosa; tubus exannulatus, in flore longistylus 10 mm. longus in brevistylus 12 mm. longus; limbus 1.3-1.4 cm. latus, disco 2.5-3 mm. lato; lobi late obovato-cuneati, 8 mm. longi, circa 8 mm. lati, apice 3-dentati, dentibus medianis deltoideis circa 1.75 mm. longis obtusis, lateralibus latere interiore rectis exteriori rotundatis et undulatis. Antherae vix 1.75 mm. longae, filamentis circa 0.3 mm. longis antheris omnino vel vix obiectis in flore longistylus circa 4 mm. supra corollae basem insertis suffultae, in flore longistylus in calyce inclusae. Ovarium circa 1 mm. altum; stylus cum stigmate globoso longus 8.75 mm. longus, brevis calyce brevior, 4 mm. longus.—*P. taliensis*, Craib in Notes Roy. Bot. Gard. Edin., vi, p. 270, p.p. non G. Forrest.

Yunnan. Shweli-Salwin divide, 11,000 ft. Lat. 25° 30' N. Plant of 2-3 inches. Flowers purplish-rose. Open moist pasture. G. Forrest, 15,707. Fl. July 1917.

Shweli-Salwin divide, 10,000 ft. Lat. 25° 30' N. Plant of 2-3 inches. Flowers purplish-blue. Open stony moist pasture. G. Forrest, 11,942. Fl. April 1913.